

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000297

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: H01J 49/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 DWPI & keywords (sift, sifdt, quadrupole, curved, voc, ion and similar terms); USPTO & keywords ("drift tube", "flow tube", tandem and similar terms), Espace & keywords ("drift tube", ion and similar terms; Google .pdf and keywords (ion, tube, quadrupole, volatile, flow, drift, tandem and similar terms)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5202563 A (COTTER et al) 13 April 1993 See abstract and figures	
A	EP 237259 A2 (FIINIGAN CORP) 16 September 1987 See columns 5 and figure 4	
A	US 6498342 B1 (CLEMMER) 24 December 2002 See column 4 and abstract	

Further documents are listed in the continuation of Box C

See patent family annex

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
4 March 2005

Date of mailing of the international search report
09 MAR 2005

Name and mailing address of the ISA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaaustralia.gov.au
Facsimile No. (02) 6283 3929

Authorized officer
STEPHEN CLARK
Telephone No : (02) 6283 2781

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000297

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5117194 A (NAKANISHI et al) 26 May 1992 See abstract, column 3 and figures	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2004/000297

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
US	5202563	CA	2103038	EP	0584262	WO	9221140
EP	0237259	CA	1249381	JP	62264546		
US	6498342	AU	51352/00	AU	71956/01	AU	77123/98
		CA	2293483	CA	2373351	CA	2413287
		EP	0995221	EP	1185860	EP	1305819
		EP	1382055	US	5905258	US	6323482
		US	6559441	US	2002014586	US	2002070339
		US	2004094702	WO	0070335	WO	0207185
		WO	9856029	WO	02086946		
US	5117194	DE	3928037	GB	2223350	JP	2062000
		JP	2174099				

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX